

## Summary Chemical Classification

Associated Plating Co.

SHEET \_\_\_\_\_ OF \_\_\_\_\_

COMPANY NAME

Plating Line 6

12-11-00

9636 Ann St. Sta Fe Springs, CA. 90670

ROOM NAME

DATE \_\_\_\_\_

SITE ADDRESS

[illegible]

# Amounts of Hazardous Materials Presenting A PHYSICAL HAZARD (Interior Storage or Use)

Site (Building) Address 9636 Arm St. Sta Fe Springs, CA 90670

Specific Control Area/Room (if applicable) Plating Line 6

Is the building equipped with a Fire Sprinkler System? (Y/N) Y

CONDITION		STORAGE			USE-CLOSED SYSTEM			USE-OPEN SYSTEM		
MATERIAL	CLASS & OR LEVEL	SOLID LBS *	LIQUID GAL *	GAS CU. FT.	SOLID LBS *	LIQUID GAL *	GAS CU. FT.	SOLID LBS *	LIQUID GAL *	
1.1 COMBUSTIBLE LIQUID	II									1.1
	III-A									
	III-B									
1.2 COMBUSTIBLE FIBER loose baled	CMF	cu. ft.			cu. ft.			cu. ft.		1.2
	CMF	cu. ft.			cu. ft.			cu. ft.		
1.3 CRYOGENIC	CRF									1.3
2.1 EXPLOSIVE	EXP		lbs.			lbs.			lbs.	2.1
3.1 FLAMMABLE SOLID	FLS									3.1
3.2 FLAMMABLE GAS flammable gas, gaseous flammable gas, liquefied	FGG									3.2
	FGL									
3.3 FLAMMABLE LIQUID  combination: 1-A, 1-B, 1-C	I-A									3.3
	I-B									
	I-C									
4.1 ORGANIC PEROXIDE UNCLASSIFIED, DETONABLE	OPD		lbs.			lbs.			lbs.	4.1
4.2 ORGANIC PEROXIDE	I		lbs.			lbs.			lbs.	4.2
	II		lbs.			lbs.			lbs.	
	III		lbs.			lbs.			lbs.	
	IV		lbs.			lbs.			lbs.	
	V		lbs.			lbs.			lbs.	
4.3 OXIDIZER	OX4		lbs.			lbs.			lbs.	4.3
	OX3		lbs.			lbs.			lbs.	
	OX2		lbs.			lbs.			lbs.	
	OX1		lbs.			lbs.			lbs.	
4.4 OXIDIZER, GAS oxidizing gas, gaseous oxidizing gas, liquefied	OGG									4.4
	OLG									
5.1 PYROPHORIC	PYR		lbs.			lbs.			lbs.	5.1
6.1 UNSTABLE REACTIVE	UR4		lbs.			lbs.			lbs.	6.1
	UR3		lbs.			lbs.			lbs.	
	UR2		lbs.			lbs.			lbs.	
	UR1		lbs.			lbs.			lbs.	
7.1 WATER REACTIVE	WR3		lbs.			lbs.			lbs.	7.1
	WR2		lbs.			lbs.			lbs.	
	WR1		lbs.			lbs.			lbs.	
8.0 AEROSOLS  combination: levels 1, 2 & 3	3									8.0
	2									
	1									

\* unless a different unit of measurement is specified above

# Amounts of Hazardous Materials Presenting A HEALTH HAZARD (Interior Storage or Use)

Site (Building) Address 9636 Ann St. Sta Fe Springs, CA 90670

\* unless a different unit of measurement is specified below

\*\* Radioactives - Please report in curies (Ci) or millicuries (mCi).

CONDITION		STORAGE			USE-CLOSED SYSTEMS			USE-OPEN SYSTEMS	
MATERIAL	CLASS & OR LEVEL	SOLID LBS.	LIQUID GAL *	GAS CU.FT.	SOLID LBS	LIQUID GAL *	GAS CU.FT.	SOLID LBS.	LIQUID GAL *
1. CARCINOGENS	CAR								4760 Gals
2. CORROSIVES	COR								5990 Gals
3. HIGHLY TOXICS	HTX		lbs.			lbs.			- lbs.
4. IRRITANTS	IRR								10,070 Gals
5. RADIOACTIVES (see below)	RAD								
Alpha emitters **									
Beta emitters **									
Gamma emitters **									
6. SENSITIZERS	SEN								5310 Gals
7. OTHER HEALTH HAZARDS	OHH								4760 Gals
8. TOXICS	TOX		lbs.			lbs.			2290 lbs.

This form is complete and accurate and reflects the maximum quantity of each material, for each use, that may be at the proposed facility at any time. The boxes left blank, indicate no such material is stored or used in this facility. We also understand any additions to the type, increase in the amounts or change in use, handling or storage of hazardous materials, as shown here, shall require **prior approval** of the City of Santa Fe Springs Fire and Building Departments.

FORM COMPLETED BY: Ofelia M. Villanueva

Process Engineer

PRINT NAME

TITLE

12/11/00

9636 Ann St. Sta Fe Springs (562)946-5525

SIGNATURE

DATE

TELEPHONE NUMBER

Associated Plating Co.

Same

COMPANY'S NAME

COMPANY'S ADDRESS

TELEPHONE NUMBER

## FIRE DEPARTMENT USE ONLY

Chemical Hazard Classification reviewed for accuracy by:

## BUILDING DEPARTMENT USE ONLY

Based on the submitted data, the building occupancy rating is:

Print Name

Signature/Date

Print Name

Signature/Date

## Associated Plating Co.

9636 Ann St. Santa Fe Springs,  
CA 90670

Tel:(562)946 - 5525 Fax: (562)941 - 5922

### Plating Line - 6

Tank No.	Volume gals.	Tank Name.	Chemical Composition.
1	550	Soak Cleaner	66 Gallons of Biokleen
2	275	Electro-Cleaner	172Lbs of Electrocleaner SC.
4	275	Hydrochloric Acid Dip	138 gallons of Hydrochloric Acid.
6	680	Nickel Sulfamate Strike	286 Gallons of Sulfamate Nickel SNR-24 192 Lbs. of Boric Acid. 7 Gallons of Hydrochloric Acid.
9	680	Nickel Sulfamate Plate	286 Gallons of Sulfamate Nickel SNR-24 212 Lbs. Boric Acid
10	680	Nickel Sulfamate Plate	286 Gallons of Sulfamate Nickel SNR-24 212 Lbs. Boric Acid
13	680	Nickel Sulfamate Plate	286 Gallons of Sulfamate Nickel SNR-24 212 Lbs. Boric Acid
14	680	Nickel Sulfamate Plate	286 Gallons of Sulfamate Nickel SNR-24 212 Lbs. Boric Acid
17	680	Nickel Sulfamate Plate	286 Gallons of Sulfamate Nickel SNR-24 212 Lbs. Boric Acid
18	680	Nickel Sulfamate Plate	286 Gallons of Sulfamate Nickel SNR-24 212 Lbs. Boric Acid



## REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
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## FIND:

	W	H	L
TANK DIMENSIONS			
1. SOAK	48"	X	60" X 48"
2. ELECTRO-CLEAN	24"	X	60" X 48"
3. COUNTER-FLOW RINSE	24"	X	60" X 48"
4. ACID DIP	24"	X	60" X 48"
5. COUNTER-FLOW RINSE	24"	X	60" X 48"
6. <del>SPRAY</del> STRIKE	60"	X	60" X 48"
7. DRAG OUT	24"	X	60" X 48"
8. COUNTER-FLOW RINSE	24"	X	60" X 48"
9. NICKEL PLATE	60"	X	60" X 48"
10. NICKEL PLATE	60"	X	60" X 48"
11. SPRAY RINSE	24"	X	60" X 48"
12. SPRAY RINSE	24"	X	60" X 48"
13. NICKEL PLATE	60"	X	60" X 48"
14. NICKEL PLATE	60"	X	60" X 48"
15. SPRAY RINSE	24"	X	60" X 48"
16. SPRAY RINSE	24"	X	60" X 48"
17. NICKEL PLATE	60"	X	60" X 48"

Nickel  
~~SPRAY~~

## NOTES:

1. NICKEL PLATE, CAPACITY CONSTRAINT  
EST. CYCLE TIME @ 20 MIN., 20% DEFERRAL  
FOR LOAD/UNLOAD, P.F.D.  
24 MIN., .4/HR., DUAL BUS-FOUR RACKS  
@ 1,000PCS/HR. PER TANK. 5 TANKS  
SCHEDULED AND 1 TANK UNSCHEDULED.

## FIND:

## TANK DIMENSIONS

18. NICKEL PLATE	60" X 60" X 48"
19. SPRAY RINSE	24" X 60" X 48"
20. SPRAY RINSE	24" X 60" X 48"
21. COUNTER-FLOW RINSE	24" X 60" X 48"
22. HOT D. I. RINSE	24" X 60" X 48"
23. HOT D. I. RINSE	24" X 60" X 48"

1/8

## ASSOCIATED PLATING

INTRI-PLEX NICKEL LINE  
(PRELIMINARY)

DRAWN BY:

R. ORNELAS

SIZE

FSCM NO.

DWG NO.

REV

P1

SCALE

SHEET 3 OF 4



**HEALTH EMERGENCY: (800) 921-1722**

**SPILL EMERGENCY: (800) 921-1722**

REV. 5/17/99

**MATERIAL SAFETY DATA SHEET**

**PRODUCT IDENTIFICATION:**

**PRODUCT NAME: POLY BIO-KLEEN**

**HAZARDOUS MATERIAL CLASSIFICATION: NON-HAZARDOUS**

**CHEMICAL FAMILY: CLEANER / DEOXIDIZER**

**FORMULA: BLEND**

HAZARD RATING		SCALE
HEALTH	2	4 = EXTREME
FIRE	1	3 = HIGH
REACTIVITY	0	2 = MODERATE
SPECIAL	0	1 = SLIGHT
		0 = INSIGNIFICANT

**INGREDIENTS:**

<u>CAS REGISTRY NO.</u>	<u>%V</u>	<u>CHEMICAL NAME</u>	<u>IN NTP, IARC OR OSHA</u> <u>ACGIV(TLV) OSHA(PEL) OTHER</u>		
79-14-1	5-10%	GLYCOLIC ACID	NE	NE	NE
34590-94-8	5-10%	DIPROPYLENE GLYCOL METHYL ETHER	100PPM	NE	NE
128-44-9	.0009%	SODIUM SACCHARIN	NE	NE	NE

**PHYSICAL DATA:**

**BOILING POINT: 212°F.**

**SPECIFIC GRAVITY: (H<sub>2</sub>O = 1) 1.01**

**VAPOR PRESSURE: NOT DETERMINED**

**PERCENT SOLID BY WEIGHT: 0**

**PERCENT VOLATIVE BY WEIGHT: 100%**

**EVAPORATION RATE (BUTYLACETATE=1): SLOWER THAN WATER**

**SOLUBILITY IN WATER: 100%**

**WEIGHT/GALLON: 8.42**

**PH: 1.50**

**APPEARANCE AND ODOR: CLEAR LIQUID, MILD ODOR**

**THIS MATERIAL IS: LIQUID**

**FIRE AND EXPLOSION HAZARD DATA:**

**FLASH POINT: CLOSED CUP: NON- FLAMMABLE**  
**OPEN CUP: NON- FLAMMABLE**

**EXTINGUISHING MEDIA: FIRE AND HEAT MAY DRY WATER LEAVING INGREDIENTS POSSIBLE TO BURN. USE FOAM, DRY CHEMICAL, CARBON DIOXIDE OR WATER FOG.**

**SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS APPROVED BY NIOSH.**

**UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE**

**HEALTH AND HAZARD DATA:****EFFECTS OF OVER EXPOSURE (FOR EACH POTENTIAL ROUTE OF EXPOSURE):**

**INHALED:** NOT DETERMINED. AVOID INHALATION FO PRODUCT MIST. MAY CAUSE RESPIRATORY IRRITATION, LIGHT HEADEDNESS AND MAKE INDIVIDUAL DROWSY.

**SKIN:** MODERATE DERMALL IRRITANT.

**EYES:** MODERATE EYE IRRITANT AND BURNING OF THE EYES.

**SWALLOWED:** HARMFUL IF SWALLOWED. MAY CAUSE NAUSEA, VOMITTING AND ACIDOSIS.

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**HEALTH EFFECTS OR RISKS FROM EXPOSURE:**

**ACUTE:** NO EVIDENCE OF ADVERSE EFFECTS.

**CHRONIC:** NO EVIDENCE OF ADVERSE EFFECTS.

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**RECOMMENDED FIRST AID PROCEDURES:**

**SKIN CONTACT:** WASH AREAS WITH SOAP AND WATER. IF IRRITATION PERSISTS, CALL A PHYSICIAN.

**EYE CONTACT:** FLUSH EYES WITH LARGE QUANTITIES OF WATER. IF IRRITATION PERSISTS CALL A PHYSICIAN.

**INHALATION:** MOVE TO WELL VENTILATED AREA. IF DIFFICULTY PERSISTS, CALL A PHYSICIAN.

**SWALLOWED:** DRINK QUANTITIES OF MILK, EGG WHITE, GELATIN SOLUTION OR WATER. CALL A PHYSICIAN IMMEDIATELY.

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**REACTIVITY DATA:**

**STABILITY:** STABLE

**CONDITIONS TO AVOID:** DO NOT MIX WITH OTHER INGREDIENTS EXCEPT WATER.

**INCOMPATIBILITY (MATERIALS TO AVOID):** STRONGLY OXIDIZING MATERIALS.

**HAZARDOUS DECOMPOSITION PRODUCTS:** NONE

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

**CONDITIONS TO AVOID:** NONE

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**CALIFORNIA PROPOSITION 65****HAZARDOUS SUBSTANCE <=>1%**

**WARNING:** THIS PRODUCT CONTAINS A CHEMICAL KNOW TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

**CHEMICAL**  
SODIUM SACCHARIN

**CAS NUMBER**  
128449

**CONCENTRATION**  
.000177%

**SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES:**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT GET IN EYES OR SKIN OR CLOTHING. USE WITH ADEQUATE VENTILATION.

OTHER PRECAUTION: CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID AND OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED WHEN HANDLING EMPTY CONTAINERS.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: FLUSH WITH WATER TO WASTE TREATMENT SYSTEM.

WASTE DISPOSAL METHODS: DISCHARGE IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SARA: THIS PRODUCT DOES NOT CONTAIN ANY TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) AND 40 CFR PART 372.

CHPA: ALL INGREDIENTS LISTED ON THE INGREDIENT DISCLOSURE LIST OF THE CANADIAN HAZARDOUS PRODUCTS ACT ARE LISTED IN SECTION II HAZARDOUS INGREDIENTS / IDENTITY.

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**CERCLA (SUPERFUND) REPORTABLE QUANTITY (IN LBS.): NONE**

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**RCRA HAZARDOUS WASTE NO. (49 CFR 261.33): NONE**

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**SPECIAL PROTECTION INFORMATION / CONTROL MEASURES:**

RESPIRATORY PROTECTION: NOT NORMALLY REQUIRED.

VENTILATION: SUITABLE EXHAUST SHOULD BE PROVIDED TO PREVENT EXPOSURE TO FUMES ABOVE THE PEL AS SPECIFIED.

PROTECTIVE GLOVES: RESISTANT GLOVES SUCH AS RUBBER.

EYE PROTECTION: FACE SHIELD OR CHEMICAL GOGGLES.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: RUBBER APRON. SAFETY SHOWERS AND EYEWASH STATIONS SHOULD BE PROVIDED IN AREAS WHERE THIS PRODUCT IS USED.

WORK / HYGIENIC PRACTICES: WASH WITH SOAP AND WATER AFTER USE.

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**SPECIAL PRECAUTIONS:**

FOR HANDLING AND STORAGE: STORE IN COOL, DRY AREA WITH CONTAINER TIGHTLY SEALED. KEEP FROM FREEZING, PRODUCTS STABILITY MAY BE AFFECTED.

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**OTHER INFORMATION:**

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**HEALTH EMERGENCY: (800) 921-1722**  
**SPILL EMERGENCY: (800) 921-1722**

Rev. 12/29/99

**MATERIAL SAFETY DATA SHEET****PRODUCT IDENTIFICATION:****PRODUCT NAME: POLY ELECTRO KLEEN - SC****HAZARDOUS MATERIAL CLASSIFICATION: CORROSIVE****CHEMICAL FAMILY: ALKALINE CLEANER****FORMULA: BLEND****INGREDIENTS:**

<u>CAS REGISTRY NO.</u>	<u>%V</u>	<u>CHEMICAL NAME</u>	<u>IN NTP, IARC OR OSHA ACGIH(TLV) OSHA(PEL) OTHER</u>	
1310-73-2	<30.0%	SODIUM HYDROXIDE	2MG/M3	2MG/M3
7722-88-5	<20.0%	TETRASODIUM PYROPHOSPHATE	5MG/M3	5MG/M3
6834-92-0	<50.0%	SODIUM METASILICATE	NI	NI

**PHYSICAL DATA:****BOILING POINT: NA****SPECIFIC GRAVITY: NA****VAPOR PRESSURE: NA****PERCENT SOLID BY WEIGHT: 100%****PERCENT VOLATIVE BY WEIGHT: NA****EVAPORATION RATE (BUTYLACETATE=1): NA****SOLUBILITY IN WATER: ESSENTIALLY SOLUBLE****pH: (AS IS) NA****APPEARANCE AND ODOR: WHITE POWDER AND PLEASANT****THIS MATERIAL IS: POWDER****FIRE AND EXPLOSION HAZARD DATA:****FLASH POINT: NA****EXTINGUISHING MEDIA: NOT COMBUSTIBLE****SPECIAL FIRE FIGHTING PROCEDURES: REACTION WITH WATER MAY BE HIGHLY EXOTHERMIC****UNUSUAL FIRE AND EXPLOSION HAZARDS: IN THE PRESENCE OF WATER, MATERIAL MAY REACT WITH AMPHOTERIC METALS (SUCH AS ALUMINUM, ZINC, OR TIN) GENERATING HYDROGEN GAS WHICH WILL BURN OR EXPLODE IF IGNITED.**

**HEALTH AND HAZARD DATA:****EFFECTS OF OVER EXPOSURE (FOR EACH POTENTIAL ROUTE OF EXPOSURE):**

**INHALED:** DUST MAY DAMAGE UPPER RESPIRATORY TRACT AND LUNG TISSUE WHICH MAY CAUSE CHEMICAL PNEUMONIA DEPENDING UPON SEVERITY OF EXPOSURE.

**SKIN:** CAN CAUSE SEVERE BURNS.

**EYES:** CAUSES SEVERE BURNS WITH DAMAGE TO EYES AND POSSIBLE BLINDNESS.

**SWALLOWED:** CAN CAUSE SEVERE IRRITATION TO MOUTH, THROAT, ESOPHAGUS, AND STOMACH.

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**EFFECTS OF CRONIC EXPOSURE:**

SUPERFICIAL DESTRUCTION OF SKIN OR PRIMARY IRRITANT DERMATITIS. INHALATION OF MIST OR VAPOR MAY RESULT IN IRRITATION OR DAMAGE TO RESPIRATORY TRACT TISSUE AND INCREASED SUSCEPTIBILITY TO RESPIRATORY ILLNESS.

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**RECOMMENDED FIRST AID PROCEDURES:**

**SKIN CONTACT:** IMMEDIATELY WASH CONTAMINATED SKIN WITH PLENTY OF WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND FOOTWEAR. WASH CLOTHING BEFORE REUSE. DISCARD FOOTWEAR IF IT CANNOT BE DECONTAMINATED. SEEK IMMEDIATE MEDICAL ATTENTION.

**EYE CONTACT:** FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING LIDS APART TO ENSURE FLUSHING OF ENTIRE SURFACE. WASHING EYES WITHIN SEVERAL SECONDS OF EXPOSURE IS ESSENTIAL TO MINIMIZE DAMAGE. SEEK IMMEDIATE MEDICAL ATTENTION.

**INHALATION:** REMOVE PERSON FROM CONTAMINATED AREA. IF BREATHING HAS STOPPED, RESUSCITATE AND ADMINISTER OXYGEN IF AVAILABLE. SEEK MEDICAL ATTENTION.

**SWALLOWED:** DRINK PROMPTLY A LARGE QUANTITY OF MILK, EGG WHITES, GELATIN SOLUTION, OR IF THESE ARE NOT AVAILABLE, DRINK LARGE QUANTITIES OF WATER. CALL A PHYSICIAN IMMEDIATELY.

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**REACTIVITY DATA:**

**STABILITY:** STABLE

**CONDITIONS TO AVOID:** STABLE UNDER NORMAL CONDITONS. SEE INCOMPATIBILITY INFORMATION.

**INCOMPATIBILITY (MATERIALS TO AVOID):** ACIDS, AMPHOTERIC METALS (SUCH AS ALUMINUM, ZINC), ORGANIC COMPOUNDS.

**HAZARDOUS DECOMPOSITION PRODUCTS:** NONE

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR      **CONDITIONS TO AVOID:** NA

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**CALIFORNIA PROPOSITION 65: NONE LISTED**

**HAZARDOUS SUBSTANCE <=>1%**

**SPILL OR LEAK PROCEDURES:**

AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WEAR PROTECTIVE EQUIPMENT(SEE SECTION VII) SWEEP OR SHOVAL SPILLED MATERIAL INTO CLEAN STEEL DRUM AND COVER. FLUSH SPILL AREA WITH COPIOUS AMOUNTS OF WATER AND NEUTRALIZE RESIDUAL TRACES WITH DILUTE ACID SUCH AS DILUTE ACETIC ACID.

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**WASTE DISPOSAL METHOD:**

DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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CERCLA (Superfund) REPORTABLE QUANTITY (IN LBS.): NONE

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RCRA HAZARDOUS WASTE NO. (49 CFR 261.33): NONE

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**SPECIAL PROTECTION INFORMATION:**

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH APPROVED RESPIRATOR WHEN AIR CONCENTRATION IS GREATER THAN THE TLV OR PEL. USE CARTRIDGE FILTER FOR CAUSTIC DUST. ALWAYS WEAR A RESPIRATOR DURING THE WATER MAKE-UP PHASE.

VENTILATION/LOCAL EXHAUST: EXHAUST VENTILATION IS RECOMMENDED DURING MAKE-UP TO REMOVE DUST AND FUMES.

PROTECTIVE GLOVES: NEOPRENE OR NATURAL RUBBER.

EYE PROTECTION: SAFETY GLASSES AND FACE SHIELD.

OTHER PROTECTIVE EQUIPMENT: CHEMICALLY RESISTANT COVERALLS, HAT, SHOES OR BOOTS.

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**SPECIAL PRECAUTIONS:**

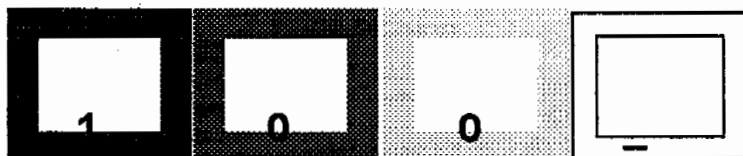
FOR HANDLING AND STORAGE: STORE IN COOL, DRY AREA. KEEP AWAY FROM ACIDS AND ORGANIC COMPOUNDS. LOOSEN COVER CAUTIOUSLY WHEN OPENING.

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**OTHER INFORMATION:**

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# MATERIAL SAFETY DATA SHEET



245 FREIGHT ST • WATERBURY, CT 06702 • (203) 575-5700

Health      Flammability      Reactivity      Other

PRODUCT      **BARRETT SNR-24**

Issue Date:      12/13/1990      Page:      1

PRODUCT CODE      **13403**

Revised Date:      2/03/1998      0

24 HR. EMERGENCY NUMBER: CHEMTREC (800) 424-9300

PRODUCT CODE MUST ACCOMPANY ALL INQUIRIES REGARDING THIS PRODUCT

## SECTION 1      PRODUCT IDENTIFICATION

Trade Name:      BARRETT SNR-24

Chemical Family:      INORGANIC SALTS

Formula:      Proprietary Mixture

HMIS Rating:      1 HEALTH      0 FLAMMABILITY      0 REACTIVITY      OTHER  
(0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High and 4 = Extreme)

## SECTION 2      HAZARDOUS INGREDIENTS

MacDermid, Inc. has indentified the following chemical ingredient(s) as hazardous.

Ingredient	CAS #	By Weight %
Nickel Salts	PROPRIETARY	5 - 10
Sulfamic Acid	5329-14-6	30 - 40

## SECTION 3      PHYSICAL DATA

Density: lbs/gal	Form: LIQUID
Specific Gravity: 1.552	pH: 4.550
Freezing Point: <32.00 F / 0.00 C	Flash Point: NA
Vapor Pressure: Not Determined	Volatile %: Not Determined
Chemical Oxygen Demand (COD): Not Determined	
Solubility in Water: Complete Solubility	
Color / Odor: Green/odorless	

(Note: These physical properties are typical values for this product.)

## SECTION 4      FIRE AND EXPLOSION DATA

Flash Point: NA

**Extinguishing Media:** Never allow run-off to enter sewers or waterways. Dry chemical, carbon dioxide, foam, water. As appropriate for surrounding material.**Unusual Fire & Explosion Hazards:** Unknown. Wear self-contained breathing apparatus/protective clothing

## SECTION 5      FIRST AID DATA

Contact a physician in all cases of exposure. First aiders should provide for their own safety prior to rendering assistance.

**Eyes:** Take the victim immediately to the nearest eyewash or shower. Wash affected eyes under slowly running water for 15 minutes. Seek medical attention immediately.**Skin:** Remove contaminated clothing. Wash skin with soap & water. If irritation develops, contact a physician.**Ingestion:** Do NOT induce vomiting. If conscious, have victim rinse mouth, then drink large amounts of water. Never give anything by mouth to an unconscious person. Call a physician immediately.**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician immediately.

**MacDermid Incorporated**

245 FREIGHT STREET - WATERBURY, CT 06702 - TELEPHONE (203)575-5700 - TELEX 4436011 - FAX (203)575-5630

**MATERIAL SAFETY DATA SHEET****Product:** BARRETT SNR-24  
**Product code:** 13403**Issue Date:** 12/13/1990  
**Revised Date:** 2/03/1998**Page:** 2**24 Hour Emergency Number: CHEMTREC (1-800-424-9300)**

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**SECTION 5 FIRST AID DATA**

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**CAUTION:** If unconscious-having trouble breathing-or in convulsions do not induce vomiting or give water. Always clean contaminated clothing and gear prior to reuse. NEVER administer anything to an unconscious person.

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**SECTION 6 - HEALTH EFFECT DATA**

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Primary route(s) of Exposure: Eye, Skin, Inhalation and Ingestion.

**Eye Contact (Acute):** Chemical irritation follows initial mechanical irritation. Intense watering of eyes will occur. Inflammation of conjunctiva will occur.

**Skin Contact (Acute):** May cause irritation and damage to skin. Initial contact will be painless but blisters occur later. Causes painful sensation to skin.

**Ingestion (Acute):** Irritation and burning sensation of lips/mouth and throat. Generally causes pain in swallowing.

**Ingestion (Chronic):** Stomach or abdominal pain may develop.

**Inhalation (Acute):** Irritation of mucous membrane of nose/mouth/throat may occur. May experience general feeling of discomfort. Temporary headache may occur.

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**SECTION 7 - PERSONAL PROTECTIVE DATA**

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**Respiratory Protection:** If there is a value for OSHA-PEL/ACGIH-TLV in section 13 and it is exceeded, it is recommended that a NIOSH approved respirator be used. Consult with your Industrial Hygienist for appropriate cartridge selection and use. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure demand, self contained breathing apparatus is recommended.

**Ventilation:** General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, dusts, mists or aerosols may be released.

**Protective Equipment:** Safety glasses and/or splash proof goggles, face shields and the availability of an eye wash is recommended. Chemically resistant apron, boots and gloves. The availability of a safety shower is recommended. If clothing is contaminated remove clothing and thoroughly wash the affected body area. Launder contaminated clothing before reuse.

These are general recommendations to provide a safe level of protection for various material handling conditions. Consult with your Safety Professional/Industrial Hygienist for specific information regarding applications at your facility.

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**SECTION 8 TOXICOLOGY DATA**

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**TOXICITY STUDIES:** Toxicity studies have not been conducted on this product. However, toxicity literature surveys have been conducted on the ingredient(s) in Section 2. The results are as follows:

**Acute Oral Toxicity:** Unknown

**Acute Dermal Toxicity:** Unknown

**Acute Respiratory Toxicity:** unknown

**Toxicity Hazard Review (THR):** Nickel and many of its compounds are poisons and carcinogens. Prolonged or repeated contact may cause dermatitis- "Nickel itch". Ingestion of large doses of nickel compounds (1-3 mg/kg) has been shown to cause intestinal disorders, convulsions, and asphyxia. Hypersensitivity to nickel is common and can cause allergic contact dermatitis, pulmonary asthma, conjunctivitis, and inflammatory reactions around nickel-containing medical implants and prostheses.

**MacDermid Incorporated**

245 FREIGHT STREET - WATERBURY, CT 06702 - TELEPHONE (203)575-5700 - TELEX 4436011 - FAX (203)575-5630

**MATERIAL SAFETY DATA SHEET****Product:** BARRETT SNR-24  
**Product code:** 13403**Issue Date:** 12/13/1990  
**Revised Date:** 2/03/1998**Page:** 3**24 Hour Emergency Number: CHEMTREC (1-800-424-9300)****SECTION 8 TOXICOLOGY DATA****Listed as suspected carcinogen by** IARC: Yes NTP: Yes OSHA: No**SECTION 9 REACTIVITY DATA****Incompatibility:** alkalis and oxidizing agents, direct heat, direct sunlight.**Hazard Decomposition Products:** Oxides of sulfur**Stability:** Stable**Conditions To Avoid:** Unknown**Hazardous Polymerization:** No hazardous polymerization.**SECTION 10 SPILLS & DISPOSAL DATA****In case of Transportation Accidents, call the following 24 hour telephone number: CHEMTREC (1-800-424-9300).****Spill Control and Recovery:** Wear protective clothing and equipment during cleanup. Absorb spills on an inert material such as earth, sand or vermiculite; sweep up and dispose of in accordance with federal, state and local regulations.**Disposal:** Dispose of in accordance with all applicable federal, state and local regulations.

Due to more restrictive waste disposal regulations, NEVER wastetreat or dispose of material until you check your appropriate local, state &amp; federal regulations for requirements. Spills may REQUIRE notification to FEDERAL, STATE and/or LOCAL AUTHORITIES.

**SECTION 11 TRANSPORTATION DATA****DOT Proper Shipping Name:**  
NON-REGULATED**Hazard:** 0/NON REGULATED**UN/NA#:** 000000**Pkg Grp:****DOT Reportable Quantity (RQ):** Not Applicable**IMO:** PLATING SOLUTION**IMO Class/Sub Class:** 0/NON-REGULATED/0**Pkg Grp:****UN/NA# :** 000000**IATA:** PLATING SOLUTION**IATA Class/Sub Class:** NON-REGULATED/0/0**Pkg Grp:****UN/NA# :** 000000**Export license may be required to export this product.****SECTION 12 GENERAL STORAGE DATA****Storage Temperature:** Maximum: 119.98F / 48.88C Minimum: 32 F

Material should be stored in the properly sealed original container

Wear protective clothing and equipment while handling.

**SECTION 13 REGULATORY DATA**

The following regulations apply to this product.

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**MATERIAL SAFETY DATA SHEET****Product:** BARRETT SNR-24  
**Product code:** 13403**Issue Date:** 12/13/1990  
**Revised Date:** 2/03/1998**Page:** 4**24 Hour Emergency Number: CHEMTREC (1-800-424-9300)****SECTION 13****REGULATORY DATA****FEDERAL REGULATIONS:****OSHA Hazard Communication Rule, 29 CFR 1910.1200:** Based on our evaluation, no ingredients in this product are subject to this rule.**CRECLA/Superfund, 40 CFR 117, 302304:** Notifications of spills of this product is not required.**SARA SUPERFUND AMENDMENTS & REAUTHORIZATIONS ACT of 1986 (TITLE III) Sections 302, 311, 312 & 313:****Section 302: Extremely Hazardous Substances (40 CFR 355):** This product does not contain ingredients listed in APPENDIX A of 40 CFR 355.**SECTION 311 & 312 - M.S.D.S. REQUIREMENTS (40 CFR 370):**

This product contains ingredient(s) listed in APPENDIX A of 40 CFR 355 and hazardous chemicals under 29 CFR 1910.1200 (c). The product should be reported under the following E.P.A. hazard categories.

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Immediate (Acute) health hazard | <input type="checkbox"/> Delayed (Chronic) health hazard   |
| <input type="checkbox"/> Fire hazard                                | <input type="checkbox"/> Sudden release of pressure hazard |
| <input type="checkbox"/> Reactive hazard                            |  |

Under Section 311, submittal of MSDS or a list of product names to the local emergency planning commission, state emergency response commission, the local fire department is required after October 17, 1987. Consult the regulation for pertinent changes and updates.

**Section 313 - List of Toxic Chemicals (40 CFR 372):** This product contains the following ingredients listed under 40 CFR 372.65

<u>Ingredient</u>	<u>CAS #</u>	<u>By Weight %</u>
Nickel Salts	PROPRIETARY	5 - 10

**TSCA:** TOXIC SUBSTANCE CONTROL ACT (TSCA): The chemical ingredient(s) in this product are listed on the 8(b) Inventory List (40 CFR 710).**RESOURCE CONSERVATION & RECOVERY ACT (RCRA), 40 CFR SUBPARTS C & D:**

Please refer to Section 10, disposal information for pertinent data.

**Total Toxic Organics:** This product does not contain ingredients on the list of Total Toxic Organics.**OSHA Process Safety (1910.119):** This product does not contain ingredients listed in Appendix A of 29 CFR 1910.119 list of highly Hazardous Chemicals, Toxics and Reactives of OSHA process safety management.**Clean Air Act:** This product contains ingredients listed on the Hazardous Air Pollutants (HAPS) of CAA 40 CFR 112 (G).

<u>Ingredient</u>	<u>CAS #</u>	<u>By Weight %</u>
Nickel Salts	PROPRIETARY	5 - 10

**Ozone Depleting Substances:** This product does not contain ingredient(s) listed on the Ozone Depleting Substances of CAA 40 CFR 82.

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**MATERIAL SAFETY DATA SHEET****Product:** BARRETT SNR-24  
**Product code:** 13403**Issue Date:** 12/13/1990  
**Revised Date:** 2/03/1998**Page:** 5**24 Hour Emergency Number: CHEMTREC (1-800-424-9300)****SECTION 13****REGULATORY DATA****STATE REGULATIONS:**

**California Proposition 65:** This product does not comply with the MSDS and labeling requirements of the Safe Drinking Water and Toxic Enforcement Act of 1986. This product contains ingredients listed on California Prop65 List.

**Ingredient**  
Nickel Salts

**CAS #**  
PROPRIETARY

**By Weight %**  
5 - 10

**Michigan Critical Materials:** This product contains ingredients listed on the Michigan Critical Materials Register.

**Ingredient**  
Nickel Salts

**CAS #**  
PROPRIETARY

**By Weight %**  
5 - 10

The information listed above does not include all Federal, State, and International regulations. The regulations listed above may change from time to time; it is the users responsibility to keep advised of current regulatory requirements.

Prepared by MacDermid, Inc. Safety & Regulator Compliance Department, based upon publicly available reference information.

**SECTION 14****USER NOTIFICATION**

To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED OR MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HERE UNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS.